TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-22-02** **Date: 24-03-17**

Customer : Asisstant Eexecutive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing and fixing street name Boards at Various Layouts in Ward No.11(Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : V Mohan Kumar #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/183/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-03-17

Sample ID No : 2017-03-22-02-01

Customer ID : Footing Cocnrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/03/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Cocnrete	M20	15/03/2017	22/03/2017	150.66 X 149.05 X 150.26	22456	8.192	363.8	16.2	16.8
2	Footing Cocnrete	M20	15/03/2017	22/03/2017	151.05 X 150.44 X 150.42	22724	8.119	381.8	16.8	
3	Footing Cocnrete	M20	15/03/2017	22/03/2017	150.22 X 150.52 X 150.65	22611	8.191	393.4	17.4	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harsitha

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

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CIVIL Pro Sig..... Date..... BANGALORE

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****End of Report****

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-03-22-02** **Date: 13-04-17**

Customer : Asisstant Eexecutive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing and fixing street name Boards at Various Layouts in Ward No.11(Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : V Mohan Kumar #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/183/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 22-03-17

Sample ID No : 2017-03-22-02-02

Customer ID : Footing Cocnrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/04/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Footing Cocnrete	M20	15/03/2017	12/04/2017	148.56 X 151.38 X 150.43	22489	8.194	521.7	23.2	23.3
2	Footing Cocnrete	M20	15/03/2017	12/04/2017	150.73 X 151.44 X 150.82	22827	8.054	522.7	22.9	
3	Footing Cocnrete	M20	15/03/2017	12/04/2017	150.72 X 150.28 X 150.97	22650	8.105	536.8	23.7	

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-03-06-04** **Date: 14-03-17**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Fixing Street name Board at Various Layouts in Ward No.11 (Kuvempunagara) in Vidyaranyapura sub Division.
Agency	:	V Mohan Kumar #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/183/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-17
Sample ID No	:	2017-03-06-04-02
Sample Type	:	Fine Aggregates
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	07-03-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:1970			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	32	32	3.2	96.8	90-100	90-100	90-100	95-100
3	2.36 mm	116	148	14.8	85.2	60-95	75-100	85-100	95-100
4	1.18 mm	101	249	24.9	75.1	30-70	55-90	75-100	90-100
5	600 micron	175	424	42.4	57.6	15-34	35-59	60-79	80-100
6	300 micron	312	736	73.6	26.4	5-20	8-30	12-40	15-50
7	150 micron	215	951	95.1	4.9	0-10	0-10	0-10	0-15
8	Pan	49	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-03-06-04** **Date: 14-03-17**

Sample ID No : 2017-03-06-04-02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970 (RA2016)
1	Water Absorption(%)	2.54	_
2	Specific Gravity	2.59	_
3	Material finer than 75 micron(%)	4.8	Not more than 15 percent

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Prepared by
Harshitha

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Quality Manager

****End of Report****

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-03-06-04** **Date: 13-03-2017**
Customer	:	Asisstant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Providing and Fixing Street name Board at Various Layouts in Ward No.11 (Kuvempunagara) in Vidyaranyapura sub Division.
Agency	:	V Mohan Kumar #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore.
Customer Reference	:	BBMP/EE/BTP/WO/183/2016-17
Source of Sample	:	Sample supplied by the Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-17
Sample ID No	:	2017-03-06-04-01(a)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383 - 1970 (RA2016) (Specification for Coarse and fine Aggregates from natural sources for concrete IS: 2386 :1963(Part - 1, 2, 3) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 2: Estimation of Deleterious Materials and Organic Impurities. IS 2386 Part 3: Specific gravity, Density, Voids,Water Abservation
Date of test	:	**06-03-17**

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken: **5000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:1970
1	40 mm	0	0	0	100	100
2	20 mm	159	159	3.18	96.8	95-100
3	10 mm	2429	2588	51.76	48.2	25-55
4	4.75 mm	2254	4842	96.84	3.2	0-5
5	Pan	158	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-03-06-04** **Date: 13-03-2017**

Sample ID No : 2017-03-06-04-01(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-1970
1	Flakiness Index(%)	10.5	_
2	Elongation Index(%)	8.1	_
3	Specific Gravity	2.58	_
4	Bulk Density(Loose) (Kg/l)	1.52	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.19	_
7	Ten percent fine value(KN)	185.5	_
8	Aggregate crushing Value(%)	22.3	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements
9	Aggregate Impact Value(%)	23.9	Shall not exceed 45% by weight for aggregates used for concrete other than for wearing surface and 30% by weight for concrete for wearing surfaces such as runways, roads, pavements

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Prepared by
Harshitha

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signature
Quality Manager

End of Report

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-02-11-01** **Date: 10-03-2017**

Customer : Asisstant Eexecutive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Providing and fixing street name Boards at Various Layouts in Ward No.11(Kuvempunagara) in Vidyaranyapura Sub Division.

Agency : V Mohan Kumar #530, Kaliyamma temple road, Kuvempunagar 2nd Stage, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/183/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 11-02-2017

Sample ID No : 2017-02-11-01-01

Sample Type : ACC 53 grade

Reference to BIS codes :
IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 6, Determination of Compressive Strength, Clause 6
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 12-02-2017 to 9-03-2017

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.1	–
2	Finess by Air permeablity method (m2/kg, Min)	291.5	225m^2/kg, Min
3	Density (gm/cc)	3.3	–
4	Standard Consistency (%)	27.5	Not specified
5	Initial Setting time	265 minutes	Not less than 30 minutes

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2017-02-11-01** **Date: 10-03-2017**

Sample ID No : **2017-02-11-01-01**

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
6	Final Setting time	305 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.0 mm	Not more than 10 mm
8	Compressive Strength		
	3 Days	28 N/mm^2	Not less than 27 N/mm^2
	7 Days	39 N/mm^2	Not less than 37 N/mm^2
	28 Days	57 N/mm^2	Not less than 53 N/mm^2

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